



WOSC10

## PREVIEW QUESTION BANK

Module Name : Life Sciences and Biotechnology-E

Exam Date : 25-Mar-2018 Batch : 11:00-13:00

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Sr · N o.	Client Quest ion ID	Question Body and Alternatives	Mar ks	Nega tive Mark s
Objective Question				
1	1	Fedaration Cup, World Cup, Allwyn International Trophy and Challenge Cup are awarded to winners of  A1 : Tennis  A2 : <b>Volleyball – (Correct Alternative)</b>  A3 : Basketball  A4 : Cricket	1. 0	0. 25
Objective Question				
2	2	Which is the first country in the world to use drones for national mail service?  A1 : Russia	1. 0	0.2 5

		<p><b>A2 France – (Correct Alternative)</b> :</p> <p>A3 Sweden :</p> <p>A4 China :</p>		
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Objective Question				
3	3	<p>Consider the following materials/objects:</p> <p>A. Comea B. Diamond C. Silicon D. Sodium Chloride</p> <p>The above materials/objects when arranged in increasing order of refractive index would be as follows:</p> <p>A1 ADCB :</p> <p><b>A2 ADBC – (Correct Alternative)</b> :</p> <p>A3 DABC :</p> <p>A4 DACB :</p>	1. 0	0.2 5

Objective Question				
4	4	<p>Various developed countries often claim that cattles in less developed countries are responsible for huge release of green house gases, thus causing green house effect. The developed countries often use this logic that these countries have lot of low yield cattle and if high yield cattle are adopted on a large basis, then release of significant amount of greenhouse gases can be checked from releasing in the atmosphere. Cattles release the greenhouse gases due to:</p>	1. 0	0.2 5

		<p><b>A1 Methanogenic bacteria in the stomach – (Correct Alternative)</b></p> <p>A2 : Improper handling of cow waste (eg: cow-dung, urine,etc.)</p> <p>A3 : Improper handling of leftover fodder</p> <p>A4 : High use of chemical fertilizers in agriculture</p>		
Objective Question				
5	5	<p>Consider the following statements and select the wrong option</p> <p>A1 If a person is stung by a honeybee it causes pain and irritation. In such case, if baking soda is applied to the area, it provides relief to the person.</p> <p>A2 : Vitamin E is helpful in relief from sunburns</p> <p><b>A3 On various sunscreen creams/lotions SPF is mentioned. : SPF stands for Sun Protection Factor. SPF 20 means that the lotion is protecting you from 20% of the harmful UV radiations in the sunlight. – (Correct Alternative)</b></p> <p>A4 Vitamin D is required for the absorption of calcium by human beings</p>	1. 0	0.2 5
Objective Question				
6	6		1. 0	0.2 5

		<p>Following are some observed natural phenomena :</p> <p>A. Mirage seen in places like deserts</p> <p>B. In winter sound of a whistle of a railway engine is heard at much longer distances</p> <p>C. Twinkling of a star in night as seen by naked eye</p> <p>D. Visibility of sun for some time after the sunset</p> <p>Which of the above natural phenomena are related to the variation in density of atmospheric air?</p> <p>A1 : ABD</p> <p>A2 : BCD</p> <p><b>A3 : ABCD – (Correct Alternative)</b></p> <p>A4 : None of these</p>		
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Objective Question

7	7	<p>The following are some common diseases:</p> <p>A. Diphtheria</p> <p>B. Rabies</p> <p>C. Cholera</p> <p>D. Malaria</p> <p>Which of the above diseases are not caused by Virus?</p> <p>A1 : ABC</p> <p>A2 BCD</p>	1. 0	0.2 5
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		<p>:</p> <p><b>A3 ADC – (Correct Alternative)</b></p> <p>:</p> <p>A4 ABD</p> <p>:</p>		
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Objective Question

8	8	<p>Which of the following is Greenhouse gas?</p> <p>A1 Carbon Monoxide</p> <p>:</p> <p><b>A2 Carbon Dioxide – (Correct Alternative)</b></p> <p>:</p> <p>A3 Sulphur Dioxide</p> <p>:</p> <p>A4 Chlorine</p> <p>:</p>	1.0	0.25
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Objective Question

9	9	<p>Tuberculosis is caused due to</p> <p><b>A1 Bacteria – (Correct Alternative)</b></p> <p>:</p> <p>A2 Virus</p> <p>:</p> <p>A3 Fungus</p> <p>:</p> <p>A4 None of the above</p> <p>:</p>	1.0	0.25
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Objective Question				
10	10	<p>United Nations Headquarter is situated at</p> <p>A1 Geneva :</p> <p>A2 Washington D.C. :</p> <p><b>A3 New York – (Correct Alternative)</b> :</p> <p>A4 Paris :</p>	1. 0	0.2 5
Objective Question				
11	11	<p>A seller gives a discount of 25% on a product with MRP marked INR 3680. He earns a profit of 15% over its cost price in this transaction. Cost price of the product is</p> <p>A1 2100 :</p> <p>A2 2200 :</p> <p>A3 2300 :</p> <p><b>A4 2400 – (Correct Alternative)</b> :</p>	1. 0	0.2 5
Objective Question				
12	12	<p>The side of a rectangular field is in ratio 4:5. Area of the field is 12500 sq mt. If the cost of fencing is INR 5/meter, how much it will cost to fence entire field?</p> <p>A1 INR 61,000 :</p>	1. 0	0.2 5

		<p><b>A2</b> INR 62,500 – (Correct Alternative)</p> <p>:</p> <p>A3 INR 63,500</p> <p>:</p> <p>A4 INR 65,000</p> <p>:</p>		
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Objective Question

13	13	<p>A box has 3 red, 2 yellow and 5 green balls. If two balls are drawn at random, what is the probability that both are yellow balls?</p> <p><b>A1</b> <math>\frac{1}{45}</math> – (Correct Alternative)</p> <p>:</p> <p>A2 <math>\frac{5}{18}</math></p> <p>:</p> <p>A3 <math>\frac{3}{31}</math></p> <p>:</p> <p>A4 <math>\frac{2}{9}</math></p> <p>:</p>	1. 0	0.2 5
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Objective Question

14	14	<p>If X and Y together can do a piece of work in 6 days. X alone can do the same work in 15 days. What time will Y take to do the same work alone?</p> <p>A1 8 days</p> <p>:</p> <p>A2 9 days</p> <p>:</p>	1. 0	0.2 5
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		<p><b>A3 10 days – (Correct Alternative)</b> :</p> <p>A4 12 days :</p>		
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Objective Question

15	15	<p>If a solid sphere of radius 15 cm is molded into 27 spherical smaller solid balls of equal radius, then the surface area of each smaller ball is</p> <p><b>A1 100Ωcm<sup>2</sup> – (Correct Alternative)</b> :</p> <p>A2 105Ωcm<sup>2</sup> :</p> <p>A3 110 Ωcm<sup>2</sup> :</p> <p>A4 115Ωcm<sup>2</sup> :</p>	1.0	0.25
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Objective Question

16	16	<p>Three six-sided dice are rolled simultaneously, what is the probability of getting a different number on each dice?</p> <p>A1 1/3 :</p> <p>A2 2/3 :</p> <p>A3 4/9 :</p> <p><b>A4 5/9 – (Correct Alternative)</b> :</p>	1.0	0.25
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Objective Question				
17	17	<p>The speed of a boat is 20 km/hr in still water. If the river is running at 5 km/hr, it takes boat 96 minutes to go to a place and come back to initial position. How far is the place from the initial point?</p> <p>A1 12 km :</p> <p>A2 13 km :</p> <p><b>A3 15 km – (Correct Alternative)</b> :</p> <p>A4 18 km :</p>	1. 0	0.2 5
Objective Question				
18	18	<p>What is the probability of drawing an Ace or a King from a deck of 52 cards?</p> <p>A1 <math>\frac{1}{13}</math> :</p> <p><b>A2 <math>\frac{2}{13}</math> – (Correct Alternative)</b> :</p> <p>A3 <math>\frac{1}{52}</math> :</p> <p>A4 <math>\frac{1}{26}</math> :</p>	1. 0	0.2 5
Objective Question				
19	19	<p>A cricketer has an average of 55 runs in 5 innings. Find out how many runs she needed to score in her sixth innings to raise her average to 60 runs?</p>	1. 0	0.2 5

		<p>A1 60 :</p> <p>A2 75 :</p> <p>A3 80 :</p> <p><b>A4 85 – (Correct Alternative)</b> :</p>		
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Objective Question

20	20	<p>The LCM of two numbers is 900 and their HCF is 50. If one of the numbers is 450, the other is</p> <p>A1 120 :</p> <p><b>A2 100 – (Correct Alternative)</b> :</p> <p>A3 125 :</p> <p>A4 150 :</p>	1. 0	0.2 5
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Objective Question

21	21	<p>If you write an original software, what type of IP rights you can get to make and sell copies of your work?</p> <p><b>A1 Copyright – (Correct Alternative)</b> :</p> <p>A2 Patents :</p>	1. 0	0.2 5
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		A3 Registered Designs :		
		A4 Trademarks :		

Objective Question

22	22	International organization with objective to encourage creative activity and to promote intellectual property throughout world is	1.0	0.25
		A1 WIPO – (Correct Alternative) :		
		A2 World Bank :		
		A3 WTO :		
		A4 UNDP :		

Objective Question

23	23	_____ is a form of intellectual property that protects the expression of ideas	1.0	0.25
		A1 Trade name :		
		A2 Copyright – (Correct Alternative) :		
		A3 Patent :		
		A4 Trade Mark :		

Objective Question				
24	24	<p>A formula, process, device or other business information that has commercial value and is kept confidential to maintain an advantage over competitors is known as a:</p> <p>A1 Patent :</p> <p><b>A2 Trade secret – (Correct Alternative)</b> :</p> <p>A3 Copyright :</p> <p>A4 Trade Mark :</p>	1. 0	0.2 5
Objective Question				
25	25	<p>Fair use allows you to use a limited amount of copyrighted material for your educational use. Which step below does NOT pass the fair use test?</p> <p>A1 Will be used for a non-profit educational purpose :</p> <p><b>A2 Will be used on a Web page – (Correct Alternative)</b> :</p> <p>A3 Will only use a small portion :</p> <p>A4 Will not deprive the author from making money :</p>	1. 0	0.2 5
Objective Question				
26	26	<p>Term of patent in India is</p> <p>A1 15 years :</p>	1. 0	0.2 5

		<p>A2 25 years :</p> <p><b>A3 20 years – (Correct Alternative)</b> :</p> <p>A4 10 years :</p>		
Objective Question				
27	27	<p>What does a trademark protect?</p> <p>A1 An invention :</p> <p>A2 a work of art :</p> <p><b>A3 logos, names and brands – (Correct Alternative)</b> :</p> <p>A4 the look, shape and feel of a product :</p>	1. 0	0.2 5
Objective Question				
28	28	<p>If a company develops a new technology that improves its main product, what type of intellectual property can they use to stop others from copying their invention ?</p> <p>A1 Copyright :</p> <p>A2 Geographical indications :</p> <p><b>A3 Patents – (Correct Alternative)</b> :</p>	1. 0	0.2 5

		A4 Trademarks :		
Objective Question				
29	29	A patent awarded by the patent office in Japan is valid in:  A1 Indonesia :  <b>A2 Japan – (Correct Alternative)</b> :  A3 All ASEAN countries :  A4 All countries that adhere to TRIPS :	1. 0	0.2 5
Objective Question				
30	30	Which of the following is NOT a basic requirement for a patent?  A1 It must have utility :  A2 It must be novel :  A3 It must not be obvious to a person of ordinary skill in the field :  <b>A4 It must be extraordinary creative – (Correct Alternative)</b> :	1. 0	0.2 5
Objective Question				
31	31	Choose the word or phrase that is most nearly opposite in meaning to the word in capital letter . LICENSED:	1. 0	0.2 5

		<p>A1 : Unnoticed</p> <p>A2 : unwritten</p> <p><b>A3 : not formally authorised – (Correct Alternative)</b></p> <p>A4 : not properly trained</p>		
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Objective Question

32	32	<p>Clear the jumble and select a grammatically correct sentence which also makes sense. To/ pay/ fifty/ rupees/ much/ too/ was/ me/ for/ thousand/ just</p> <p><b>A1 Fifty thousand rupees was just too much for me to pay – : (Correct Alternative)</b></p> <p>A2 : Pay just fifty thousand rupees to me was too much</p> <p>A3 : Fifty thousand rupees was too much just to pay for me</p> <p>A4 : To pay just fifty thousand rupees was too much for me</p>	1. 0	0.2 5
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Objective Question

33	33	<p>Select the word or set of words that <u>best</u> completes the following sentence. Because our supply of fossil fuel has been sadly ____, we must find ____ source of energy.</p> <p>A1 : stored.....hoarded</p> <p>A2 : compensated.....significant</p>	1. 0	0.2 5
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		<p>A3 exhausted....inefficient :</p> <p><b>A4 depleted.....alternate – (Correct Alternative)</b> :</p>		
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Objective Question

34	34	<p>Tick the word <u>closest</u> in meaning to the word in <i>italics</i> - an <i>audacious</i> attempt</p> <p>A1 useless :</p> <p>A2 foolish :</p> <p><b>A3 bold – (Correct Alternative)</b> :</p> <p>A4 crazy :</p>	1. 0	0.2 5
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Objective Question

35	35	<p>Choose the most appropriate word to complete the following sentence: There is a _____ of cows in the next field.</p> <p>A1 Flock :</p> <p>A2 Swarm :</p> <p>A3 Group :</p> <p><b>A4 Herd – (Correct Alternative)</b></p>	1. 0	0.2 5
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Objective Question

36	36	Choose the phrase which fits the sentence best : The bus _____ coming.	1.0	0.25
		A1 Will :		
		A2 Has :		
		A3 Is – (Correct Alternative) :		
		A4 On :		

Objective Question

37	37	Choose the correctly spelt word:	1.0	0.25
		A1 adversity – (Correct Alternative) :		
		A2 adeversity :		
		A3 advercity :		
		A4 aedversity :		

Objective Question

38	38	Which of the following words best explains the phrase given below? One who abandons his religious faith.	1.0	0.25
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		<p>A1 traitor :</p> <p><b>A2 apostate – (Correct Alternative)</b> :</p> <p>A3 prostrate :</p> <p>A4 blasphemmer :</p>		
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Objective Question

39	39	<p>Select the word that is most appropriate to complete the sentence: He was blind _____ one eye.</p> <p>A1 with :</p> <p>A2 along :</p> <p><b>A3 in – (Correct Alternative)</b> :</p> <p>A4 on :</p>	1. 0	0.2 5
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Objective Question

40	40	<p>Choose the word or phrase that is most nearly opposite in meaning to the given word. <b>Widely</b></p> <p><b>A1 narrowly – (Correct Alternative)</b> :</p> <p>A2 spaciouly :</p>	1. 0	0.2 5
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		A3 broadly :		
		A4 relatively :		

Objective Question

41	41	Which of the following are prime numbers?  A1 1,3,5 : A2 1,5,7 : <b>A3 2,3,5 – (Correct Alternative)</b> : A4 1,7,9 :	1. 0	0.2 5
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Objective Question

42	42	A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is  A1 $59\frac{7}{11}$ min. past 3 p.m. : <b>A2 4 P.M. – (Correct Alternative)</b> : A3 $58\frac{7}{11}$ min., past 3 p.m. : A4 $2\frac{3}{11}$ min. past 4 p.m. :	1. 0	0.2 5
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Objective Question				
43	43	<p>In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is</p> <p>A1 75 cu. m :</p> <p><b>A2 750 cu. m – (Correct Alternative)</b> :</p> <p>A3 7500 cu. m :</p> <p>A4 75000 cu. m :</p>	1.05	0.25
Objective Question				
44	44	<p>The total time taken by a boatman to row his boat upstream and downstream distance of 56 km together is 12 hours. The difference between times taken by him to row his boat another upstream and downstream distance of 42 km is 3 hours. Find the speed of boat and stream.</p> <p>A1 12.5 kmph, 1.5 kmph :</p> <p>A2 11.5 kmph, 2.5 kmph :</p> <p>A3 9.5 kmph, 4.5 kmph :</p> <p><b>A4 10.5 kmph, 3.5 kmph – (Correct Alternative)</b> :</p>	1.05	0.25
Objective Question				
45	45	<p>A says to B “I am twice as old as you were when I was as old as you are”. The sum of their ages is 56 years. Find the difference of their ages.</p>	1.05	0.25

		<p>A1 9 :</p> <p>A2 11 :</p> <p>A3 13 :</p> <p><b>A4 8 – (Correct Alternative)</b> :</p>		
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Objective Question

46	46	<p>A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?</p> <p>A1 26.16 :</p> <p>A2 28.16 :</p> <p><b>A3 29.16 – (Correct Alternative)</b> :</p> <p>A4 30.16 :</p>	1. 0	0.2 5
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Objective Question

47	47	<p>How many times is the HCF of 48, 36, 72, and 24 contained in their LCM?</p> <p>A1 8 times :</p> <p>A2 16 times</p>	1. 0	0.2 5
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		<p>:</p> <p><b>A3 12 times – (Correct Alternative)</b></p> <p>:</p> <p>A4 4 times</p> <p>:</p>		
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Objective Question

48	48	<p>In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?</p> <p>A1 120</p> <p>:</p> <p><b>A2 720 – (Correct Alternative)</b></p> <p>:</p> <p>A3 4320</p> <p>:</p> <p>A4 1440</p> <p>:</p>	1. 0	0.2 5
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Objective Question

49	49	<p>Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1:1:2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:</p> <p>A1 Rs. 169.50</p> <p>:</p> <p>A2 Rs. 170</p> <p>:</p> <p>A3 Rs. 180</p> <p>:</p>	1. 0	0.2 5
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		<b>A4 Rs. 175.50 – (Correct Alternative)</b> :		
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Objective Question

50	50	<p>In an exam, Class A scored an average of 50 marks with standard deviation of 5. Class B scored an average of 50 with standard deviation of 9. Which of the following statements is true?</p> <p>A1 : Class B has more students than Class A.</p> <p>A2 : Class A has more students than Class B</p> <p>A3 : Class A has more outlier students than Class B</p> <p><b>A4 Class B has more outlier students than Class A – (Correct Alternative)</b></p>	1. 0	0.2 5
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Objective Question

51	51	<p>C is favorite child of F. C is fond of her younger brother B. B is not the only sibling of A. F loves her father M. What is A to M?</p> <p><b>A1 Grand child – (Correct Alternative)</b> :</p> <p>A2 : Grand parent</p> <p>A3 : No relation</p> <p>A4 : Parent</p>	1. 0	0.2 5
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Objective Question

52	52	If HEN = 124; WIRE = 9752; and RAT = 538, EATEN is	1.	0.2
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		_____?	0	5
		A1 : 28324		
		A2 : 23874		
		<b>A3 : 23824 – (Correct Alternative)</b>		
		A4 : 42832		

Objective Question

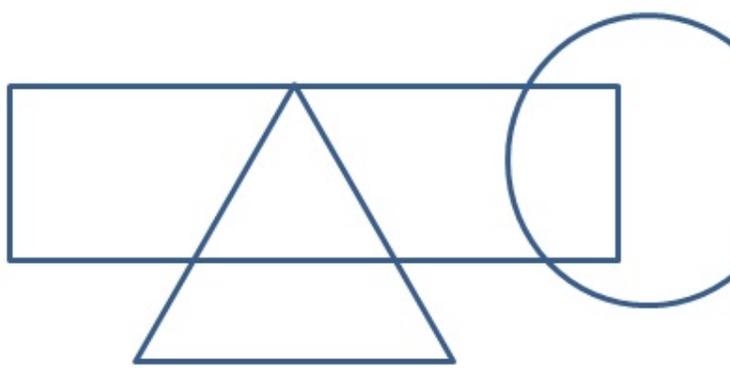
53	53	A pen was marked as Rs 1000. After a good negotiation, I bought it at a discount of 20%. Now I am offering the same pen at 20% profit. What is the difference between the new price and old price?	1.0	0.25
		A1 : Rs. 160		
		A2 : Rs. 200		
		<b>A3 : Rs. 40 – (Correct Alternative)</b>		
		A4 : No difference		

Objective Question

54	54	In Roman numerals, M, L, and XL stand for _____.	1.0	0.25
		<b>A1 : 1000, 50, 40 – (Correct Alternative)</b>		

		A2 : 40, 42, 44		
		A3 : 30, 40, 50		
		A4 : 1000, 40, 50		

Objective Question

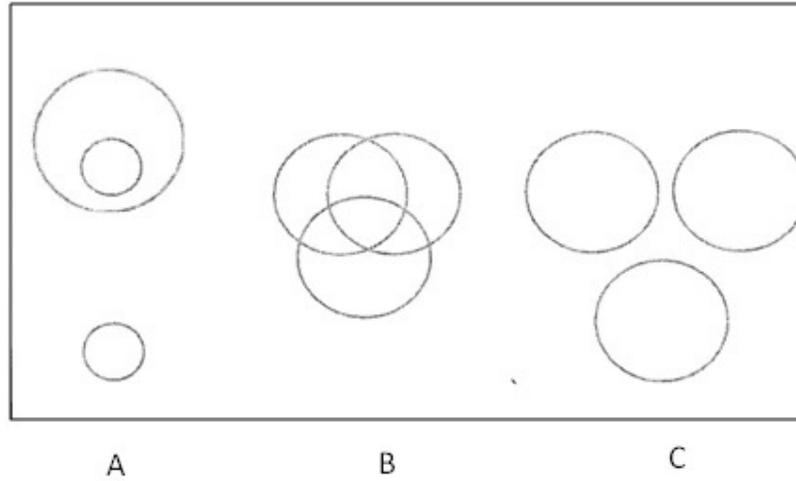
55	55	<p>In the following diagram, triangle represents mathematicians, rectangle represents programmers and circle represents philosophers. Which of the following is incorrect?</p>  <p>A1 : Some of the philosophers are programmers.</p> <p>A2 : Some of the programmers are mathematicians.</p> <p><b>A3 Some of the mathematicians are philosophers. – (Correct Alternative)</b></p> <p>A4 : Some of the programmers are not mathematicians</p>	1. 0	0.2 5
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Objective Question

56	56		1.	0.2
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0 5

Which of the diagrams best fits the association between Sparrow.



A1 A – (Correct Alternative)

A2 B

A3 C

A4 D

Objective Question

57 57

A person walks at 10km/h for 6hr and at 8km/h for 12hr. Her average speed is \_\_\_\_ km/h

1. 0.2  
0 5

A1 6.22

A2 8.67 – (Correct Alternative)

		:  A3 3.77 :  A4 9 :		
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Objective Question

58	58	If K and M together own 1750 balls. If $\frac{4}{25}$ of K's share is equal to $\frac{2}{5}$ of M's share, how many balls M have?  A1 1250 :  <b>A2 500 – (Correct Alternative)</b> :  A3 750 :  A4 1050 :	1.0	0.25
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Objective Question

59	59	A large number of people suffer from Dengue every year in India. Dengue is spread by female mosquitoes during the day time. Dengue can be prevented by avoiding all chances of mosquitoes breeding. The para best supports the statement that  A1 Male mosquitoes do not spread diseases :  A2 People should not step out during the day time :  <b>A3 Mosquitoes breeding should be stopped – (Correct Alternative)</b> :	1.0	0.25
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		A4 Dengue is the only diseases that affects Indian people :		
Objective Question				
60	60	A player was asked to run around the circular cricket ground as punishment. The coach was standing at the exact center of the ground which was 100 M from the boundary. How much distance does the player cover in one round?  A1 200.8 :  A2 628.32 – (Correct Alternative) :  A3 800.8 :  A4 400.4 :	1. 0	0.2 5
Objective Question				
61	61	Bacterial enzyme that cut DNA at specific sites within the DNA molecule called  A1 Exonuclease :  A2 Restriction endonuclease II – (Correct Alternative) :  A3 Methylase :  A4 Transferase :	1. 0	0.2 5
Objective Question				

62	62	Sequences that read same on both the strands of DNA in either direction are known as	1.0	0.25
		<p>A1 : <b>Palindromes – (Correct Alternative)</b></p> <p>A2 : Sticky ends</p> <p>A3 : Blunt ends</p> <p>A4 : Recognition sequence</p>		

Objective Question

63	63	The Maxam Gilbert method of nucleotide sequence is based on	1.0	0.25
		<p>A1 : PCR</p> <p>A2 : <b>Chemical degradation – (Correct Alternative)</b></p> <p>A3 : DNA replication</p> <p>A4 : None of the above</p>		

Objective Question

64	64	Which of the following analysis tool can be used to compare an amino acid sequence of an unknown protein to a nucleotide sequence encoding a known protein?	1.0	0.25
		<p>A1 : BLASTn</p>		

		<p>A2 BLASTp :</p> <p>A3 tBLAST :</p> <p><b>A4 BLASTx – (Correct Alternative)</b> :</p>		
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Objective Question

65	65	<p>During aminoacylation of tRNA, amino acids are activated by</p> <p><b>A1 ATP – (Correct Alternative)</b> :</p> <p>A2 AMP :</p> <p>A3 GTP :</p> <p>A4 Amino acyl tRNA synthetase :</p>	1. 0	0.2 5
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Objective Question

66	66	<p>Neomycin phosphotransferase gene which is used as selectable marker inactivates which of the following antibiotic?</p> <p>A1 Hygromycin :</p> <p>A2 Ampicillin :</p> <p>A3 Streptomycin :</p> <p><b>A4 Kanamycin – (Correct Alternative)</b></p>	1. 0	0.2 5
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Objective Question				
67	67	pBIN19 is an example of	1.0	0.25
		A1 : Co-integrate vector		
		A2 : Expression vector		
		A3 : <b>Binary vector – (Correct Alternative)</b>		
		A4 : None of these		
Objective Question				
68	68	Distance between two successive nitrogenous bases or base pairs of DNA is	1.0	0.25
		A1 : 34 A°		
		A2 : <b>3.4 A° – (Correct Alternative)</b>		
		A3 : 0.34 A°		
		A4 : 20 A°		
Objective Question				
69	69	Enzyme required for removing RNA primer during DNA replication is	1.0	0.25
		A1 DNA primase		

		<p>:</p> <p>A2 DNA ligase :</p> <p><b>A3 DNA polymerase I – (Correct Alternative)</b> :</p> <p>A4 DNA polymerase III :</p>		
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Objective Question

70	70	<p>QTL analysis is used to</p> <p>A1 identify RNA polymerase binding sites :</p> <p>A2 map genes in bacterial viruses :</p> <p>A3 determine which genes are expressed at a developmental stage :</p> <p><b>A4 identify chromosome regions associated with a complex trait in a genetic cross – (Correct Alternative)</b> :</p>	1.0	0.25
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Objective Question

71	71	<p>Which of the followings is transcriptionally inactive region in a chromosome?</p> <p><b>A1 Satellite DNA – (Correct Alternative)</b> :</p> <p>A2 Region devoid of nucleosomes :</p> <p>A3 Long regions of DNase I sensitivity :</p>	1.0	0.25
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		A4 Beads on string region :		
Objective Question				
72	72	<p>Portions of the genome having sequences similar to functional genes but that lack control regions are referred to as</p> <p>A1 : tandemly repetitive DNA</p> <p>A2 : interspersed repetitive DNA</p> <p>A3 : multigene family</p> <p><b>A4 : pseudogenes – (Correct Alternative)</b></p>	1.0	0.25
Objective Question				
73	73	<p>In which of the following methods of plant transformation, multicopy gene integration is a common feature?</p> <p>A1 : Agrobacterium mediated transformation</p> <p><b>A2 : Particle bombardment – (Correct Alternative)</b></p> <p>A3 : Electroporation</p> <p>A4 : PEG mediated transformation</p>	1.0	0.25
Objective Question				
74	74	If the goal is to create a plant resistant to a pathogen, which cell	1.0	0.2

		based plant technology would be most effective	0	5
		A1 : clonal propagation		
		A2 : cybridization		
		A3 : protoplast fusion		
		<b>A4 : somaclonal selection – (Correct Alternative)</b>		

Objective Question

75	75	Which of the following is not an essential amino acid?	1.0	0.25
		<b>A1 : Proline – (Correct Alternative)</b>		
		A2 : Histidine		
		A3 : Leucine		
		A4 : Methionine		

Objective Question

76	76	For development of selection marker free transgenic plants by co-transformation using Agrobacterium, the marker genes are	1.0	0.25
		A1 : segregated out in T0 generation		
		A2 : excised out in T0 generation		

		<p><b>A3</b> segregated out in T1 generation – (Correct Alternative)</p> <p>:</p> <p>A4 excised out in T1 generation</p> <p>:</p>		
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Objective Question

77	77	<p>lambda phage vector can carry up to</p> <p><b>A1</b> 20 kb fragment – (Correct Alternative)</p> <p>:</p> <p>A2 30 kb fragment</p> <p>:</p> <p>A3 40 kb fragment</p> <p>:</p> <p>A4 50 kb fragment</p> <p>:</p>	1. 0	0.2 5
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Objective Question

78	78	<p>Which of the following is not involved in translating information in to protein?</p> <p>A1 rRNA</p> <p>:</p> <p><b>A2</b> si RNA – (Correct Alternative)</p> <p>:</p> <p>A3 mRNA</p> <p>:</p> <p>A4 tRNA</p> <p>:</p>	1. 0	0.2 5
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Objective Question				
79	79	<p>A 20mer DNA contains A,G and C only. In how many ways can this DNA sequence be constructed?</p> <p>A1 <math>4^{20}</math> :</p> <p>A2 <math>20^4</math> :</p> <p><b>A3 <math>3^{20}</math> – (Correct Alternative)</b> :</p> <p>A4 <math>20^3</math> :</p>	1. 0	0.2 5
Objective Question				
80	80	<p>Which of the following can be used for amino acid sequencing of a purified protein present in proteome?</p> <p>A1 Mass spectrometry :</p> <p><b>A2 Tandem mass spectrometry – (Correct Alternative)</b> :</p> <p>A3 3D PAGE :</p> <p>A4 MALDI-TOF :</p>	1. 0	0.2 5
Objective Question				
81	81	<p>Which of the following staining methods is used to visualize protein samples separated on polyacrylamide gel?</p> <p>A1 Ethidium bromide :</p>	1. 0	0.2 5

		<p>A2 FITC :</p> <p><b>A3 Coomassie brilliant blue – (Correct Alternative)</b> :</p> <p>A4 SYBR Green :</p>		
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Objective Question

82	82	<p>Which of the following human disease is caused by deposition of amyloid fibrils?</p> <p>A1 Sickle cell anemia :</p> <p><b>A2 Alzheimer’s disease – (Correct Alternative)</b> :</p> <p>A3 xeroderma pigmentosus :</p> <p>A4 Bright’s disease :</p>	1. 0	0.2 5
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Objective Question

83	83	<p>The oxygen binding curve for hemoglobin is</p> <p><b>A1 Sigmoidal – (Correct Alternative)</b> :</p> <p>A2 Hyperbolic :</p> <p>A3 Straight line passing through origin :</p>	1. 0	0.2 5
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		A4 : Straight line not passing through origin		
Objective Question				
84	84	The aqueous compartment between the plasma membrane and peptidoglycan cell wall in bacteria is called  A1 : Cytoplasm  A2 : Lysosome  <b>A3 : Periplasmic space – (Correct Alternative)</b>  A4 : endosome	1. 0	0.2 5
Objective Question				
85	85	If an enzyme inhibitor binds only to the enzyme-substrate complex, the type of inhibition is known as  A1 : Competitive inhibition  <b>A2 : Uncompetitive inhibition – (Correct Alternative)</b>  A3 : Non competitive inhibition  A4 : Mixed inhibition	1. 0	0.2 5
Objective Question				
86	86	If the secretion from one cell affects only the neighboring cells, the type of secretion is known as	1. 0	0.2 5

		<p>A1 : Autocrine :</p> <p><b>A2 Paracrine – (Correct Alternative)</b> :</p> <p>A3 : Endocrine :</p> <p>A4 : Exocrine :</p>		
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Objective Question

87	87	<p>Two positively charged amino acids present in protein molecule are</p> <p><b>A1 arginine and lysine – (Correct Alternative)</b> :</p> <p>A2 : arginine and asparagine :</p> <p>A3 : asparagine and phenyl alanine :</p> <p>A4 : histidine and tyrosine :</p>	1.0	0.25
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Objective Question

88	88	<p>The isoelectric point (pI) of a protein is 8.8. At a pH of 7, the protein will be</p> <p>A1 : Negatively charged :</p> <p><b>A2 Positively charged – (Correct Alternative)</b> :</p>	1.0	0.25
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		A3 Neutral :		
		A4 Denatured :		

Objective Question

89	89	Programmed cell death is also known as	1.0	0.25
		A1 Necrosis :		
		A2 Exocytosis :		
		A3 Phagocytosis :		
		<b>A4 Apoptosis – (Correct Alternative)</b> :		

Objective Question

90	90	The pathway through which non carbohydrate precursors are converted to glucose is known as	1.0	0.25
		A1 Glycolysis :		
		A2 TCA cycle :		
		<b>A3 Gluconeogenesis – (Correct Alternative)</b> :		
		A4 Glycosylation :		

Objective Question				
91	91	<p>Appearance of malarial fever in a patient is accompanied with the release of:</p> <p><b>A1 Merozoites from RBC – (Correct Alternative)</b></p> <p>A2 Maemozoin from RBC</p> <p>A3 Mchuffner’s granules</p> <p>A4 Globulin</p>	1.0	0.25
Objective Question				
92	92	<p>Kappa particles are found in:</p> <p>A1 Euglena</p> <p><b>A2 Paramecium – (Correct Alternative)</b></p> <p>A3 Volvox</p> <p>A4 Trichomonas</p>	1.0	0.25
Objective Question				
93	93	<p>Sea cucumber belong to the class</p> <p>A1 Crinoidea</p> <p><b>A2 Holothuroidea – (Correct Alternative)</b></p>	1.0	0.25

		<p>:</p> <p>A3 Echinoidea</p> <p>:</p> <p>A4 Ophiuroidea</p> <p>:</p>		
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Objective Question

94	94	<p>In birds egg can be categorized as</p> <p>A1 Isolecithal</p> <p>:</p> <p><b>A2 Telolecithal – (Correct Alternative)</b></p> <p>:</p> <p>A3 Homolecithal</p> <p>:</p> <p>A4 Teleolecithal</p> <p>:</p>	1.0	0.25
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Objective Question

95	95	<p>Crossing over occurs during:</p> <p><b>A1 Pachytene – (Correct Alternative)</b></p> <p>:</p> <p>A2 Diplotene</p> <p>:</p> <p>A3 Diakinesis</p> <p>:</p> <p>A4 Telophase</p> <p>:</p>	1.0	0.25
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Objective Question			
96	96	<p>Morphogenetic movements start in the embryo during:</p> <p>A1 : Blastulation</p> <p>A2 : <b>Gastrulation – (Correct Alternative)</b></p> <p>A3 : Tubulation</p> <p>A4 : Neurulation</p>	1.0 0.2 5
Objective Question			
97	97	<p>Metamorphosis can be introduced artificially by injecting</p> <p>A1 : Adrenaline</p> <p>A2 : <b>Thyroxine – (Correct Alternative)</b></p> <p>A3 : F.S.H</p> <p>A4 : L.H</p>	1.0 0.2 5
Objective Question			
98	98	<p>Axolotl is the larva of:</p> <p>A1 : <b>Ambystoma – (Correct Alternative)</b></p> <p>A2 : Salamander</p>	1.0 0.2 5

		A3 Necturus :		
		A4 Proteus :		

Objective Question

99	99	Which of the following helps in respiration of aquatic mammals	1.0	0.25
		A1 Organ of corti :		
		A2 Bursa fabricii :		
		A3 Gill Lamellae :		
		<b>A4 Retia mirabilia – (Correct Alternative)</b> :		

Objective Question

100	100	The transitional heart is seen in	1.0	0.25
		A1 Fishes :		
		A2 Amphibians :		
		<b>A3 Reptiles – (Correct Alternative)</b> :		
		A4 Birds :		

Objective Question

10 1	101	<p>The condition in which body suffer from acute shortage of oxygen is called</p> <p>A1 : Anemia</p> <p><b>A2 : Hypoxia – (Correct Alternative)</b></p> <p>A3 : Deoxygenation</p> <p>A4 : Detoxification</p>	1. 0	0.2 5
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Objective Question

10 2	102	<p>Hypertrichosis is characterised by</p> <p>A1 : Haemophilia</p> <p>A2 : Presence of scales in the skin</p> <p><b>A3 : Presence of hairs in the pinna – (Correct Alternative)</b></p> <p>A4 : All of these</p>	1. 0	0.2 5
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Objective Question

10 3	103	<p>Southern blotting</p> <p><b>A1 Is used to detect a specific DNA fragment – (Correct Alternative)</b></p> <p>A2 : Is used to detect a specific RNA fragment</p>	1. 0	0.2 5
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		<p>A3 : Is used to detect a specific poly peptide fragment</p> <p>A4 : Is a technique for separating nucleic acid fragments</p>		
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Objective Question

10 4	104	<p>The stable community at the end of ecological succession is called</p> <p>A1 : Pioneer community</p> <p>A2 : Stable community</p> <p><b>A3 : Climax community – (Correct Alternative)</b></p> <p>A4 : Species</p>	1. 0	0.2 5
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Objective Question

10 5	105	<p>The primary consumers in a pond ecosystem is</p> <p>A1 : Phytoplanktons</p> <p><b>A2 : Zooplanktons – (Correct Alternative)</b></p> <p>A3 : Fishes</p> <p>A4 : Bacteria</p>	1. 0	0.2 5
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Objective Question				
10 6	106	<p>A photobiont in lichens is/are</p> <p>A1 : Green algae only</p> <p><b>A2 : Green or blue-green algae – (Correct Alternative)</b></p> <p>A3 : Blue-green algae only</p> <p>A4 : A fungus</p>	1. 0	0.2 5
Objective Question				
10 7	107	<p>Which fungus is used as a biocontrol agent against fungal diseases?</p> <p>A1 : Coprinus cinereus</p> <p><b>A2 : Trichoderma harzianum – (Correct Alternative)</b></p> <p>A3 : Alternaria solani</p> <p>A4 : Agaricus bisporus</p>	1. 0	0.2 5
Objective Question				
10 8	108	<p>Living materials can be studied by</p> <p>A1 : Phase contrast microscopy</p> <p>A2 Dark field microscopy</p>	1. 0	0.2 5

		:  A3 Interference microscopy :  <b>A4 All of these – (Correct Alternative)</b> :		
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Objective Question

109	109	Cultivated bananas are sterile because  A1 Male flowers are not produced :  A2 Pollinators are not available :  <b>A3 They are triploid and therefore seeds are not set – (Correct Alternative)</b> :  A4 Female flowers are not produced :	1.0	0.25
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Objective Question

110	110	Stomata are completely absent in the plants which are  <b>A1 Submerged aquatics – (Correct Alternative)</b> :  A2 Grasses :  A3 Conifers :  A4 Floating leaf aquatics :	1.0	0.25
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Objective Question				
11 1	111	Which technique will be suitable for conservation of a plant species of which few individuals are remaining in nature?	1. 0	0.2 5
		A1 : ELISA		
		A2 : Gene cloning		
		<b>A3 : Micropropagation – (Correct Alternative)</b>		
		A4 : Mutation		
Objective Question				
11 2	112	Centi Morgan is the unit to measure	1. 0	0.2 5
		A1 : Radiocativity		
		A2 : Efficiency of nucleases		
		<b>A3 : Distance between two genes – (Correct Alternative)</b>		
		A4 : Length of DNA		
Objective Question				
11 3	113	Okazaki fragments are formed on	1. 0	0.2 5
		<b>A1 : Lagging strand of DNA – (Correct Alternative)</b>		
		A2 Leading strand of DNA		

		:  A3 : Both leading and lagging strands of DNA :  A4 : Only on uncoiled DNA double helix :		
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Objective Question

11 4	114	When a diploid embryo sac is formed from a megaspore mother cell without a regular meiotic division, then the process is called  A1 : Parthenogamy  A2 : Polyspermy  A3 : Polygamy  <b>A4 : Diplospory – (Correct Alternative)</b>	1. 0	0.2 5
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Objective Question

11 5	115	A corm is a  <b>A1 : Modified stem – (Correct Alternative)</b>  A2 : Modified root  A3 : Normal root  A4 : Normal stem	1. 0	0.2 5
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Objective Question				
11 6	116	<p>The largest family of the angiosperms in the world is</p> <p>A1 : Rubiaceae</p> <p>A2 : Orchidaceae</p> <p>A3 : Rosaceae</p> <p><b>A4 : Asteraceae – (Correct Alternative)</b></p>	1. 0	0.2 5
Objective Question				
11 7	117	<p>Ethyl methane sulfonate (EMS) acts as a</p> <p>A1 : Base analog</p> <p>A2 : Deaminating agent</p> <p><b>A3 : Alkylating agent – (Correct Alternative)</b></p> <p>A4 : Intercalating agent</p>	1. 0	0.2 5
Objective Question				
11 8	118	<p>Artificial seeds refers to</p> <p>A1 : Seeds synthesized with recombinant DNA technology</p>	1. 0	0.2 5

		<p><b>A2 Somatic embryos encapsulated in a gel – (Correct Alternative)</b></p> <p>A3 : Seeds of synthetic plants</p> <p>A4 : All of these</p>		
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Objective Question

119	119	<p>Which region of India is recognized as 'Cradle of Speciation'?</p> <p><b>A1 Eastern Himalayas – (Correct Alternative)</b></p> <p>A2 : Western Himalayas</p> <p>A3 : Eastern Ghats</p> <p>A4 : Western Ghats</p>	1.0	0.25
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Objective Question

120	120	<p>In which of the following organelle of a cell contain high content of acid phosphatases?</p> <p>A1 : Golgi bodies</p> <p><b>A2 Lysosomes – (Correct Alternative)</b></p> <p>A3 : Mitochondria</p> <p>A4 Endoplasmic reticulum</p>	1.0	0.25
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